

## Product datasheet for **RC215015**

### ZNF384 (NM\_001039917) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF384 (NM_001039917) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF384
Synonyms:	CAGH1; CAGH1A; CIZ; ERDA2; FLJ59043; NMP4; NP; TNRC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC215015 representing NM\_001039917  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAAGAACTCACTTCAATTCTAACCCGTACTTCTGGCCTTCTATCCCCACAGTCTCAGTCTCAGATCG  
AGAACACAATGTTTCATCAACAAGATGAAGGATCAGCTGTTGCCAGAGAAGGGCTGTGGTCTGCCCCACC  
TCACTACCCACCTTGTGACAGTGCCTGCCTCAGTGTCCTGCCCTCAGGCATCAGTATGGACACAGAG  
TCCAAGTACAGACCAGTCAACCCACACAGCAAGCGTCCGTTACCCAGAAATACACGGTGGTCCCTGTG  
CGTCTACAGGACTGATGACTGCTGGAGTCTCCTGTTCTCAGAGGTGGAGAAGAGAAGGGAGTCAATCAAG  
GGGTCCGGGTTTGGTAAACAGTCCCCCTCAGGCTCTCTTGTGACCACAGCATATCAGCTCAGACTTC  
CCCATTTCGGCTCCCATGATTGTCTCAGCTCTTCCCCCTGGCTACAAGCCCTGCAGGTTGTCCCTGACC  
TCTCAAGAAGGTAGCATCGACCTAACCGAGGAAGGAGCGGAGGTGGTGGAGGTGCCAGTGTGCG  
TCCTAAGCCACCCCGGGCCGGAAGAAGAAGCGGATGCTGGAATCAGGGCTGCCGAGATGAATGACCT  
TATGTCCTCTCCCTGAGGATGATGATGACCATCAGAAAGACGGCAAGACCTACAGGTGCCGGATGTGCT  
CACTGACATTCTACTCCAAGTCCGAGATGCAGATCCACTCCAAGTCACACACCGAGACCAAGCCCCACAA  
GTGCCCCATTGTCTCAAGACCTTCGCCAACAGCTCTACCTGGCCACAGCATCCGTATACACTCAGGG  
GCTAAGCCCTACAGTGTAACTTCTGTGAGAAATCCTTCCGCCAGCTCTCCACCTTCAGCAGCACACCC  
GAATCCACTGGTATAGACCATAAATGTGCACACCAGGCTGTGAGAAAGCCTTCACAACTCTC  
CAATCTGCAGTCCACAGACGGCAACACAACAAGATAAACCTTCAAGTGCCACAACTGTATCGGGCG  
TACACGGATGCAGCTCACTAGAGGTGCACCTGTCTACGCACACAGTGAAGCATGCAAGGTGTACACT  
GCATATCTCAGTCCGGCATAACATCAGAAACATACCTTATGAAACATATGCGCAACACAACCCGCG  
TGATCTTCAGCAACAGGTGCAGGACGACGACGAGCGGCAGCAGTGGCCAGGCCAGGCTCAAGCTCAA  
GCCAGGCTCAGGCTCAGGCTCAAGCCAGGCCAGGCCAGGCTCCCAAGCATCACAGCAGCAGCAGC  
AGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGCCACCACTCCAGTCTCCTGGGGCAGCCCC  
CCAGGGTGGGGTGGTGGGGACAGCAATCCCAACCCTCCACCCAGTGTCTTTGACCTGACCCGAT  
AAGACGGCGGAGCATATAAGGACATCTGCCTCACTGTCACCACCAGCACCATCCAGGTGGAGCCTGG  
CCAGCTCT

ACGCGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC215015 representing NM\_001039917  
Red=Cloning site Green=Tags(s)

MEESHFNPNFYFWPSIPTVSGQIENTMFINMKDQLLPEKGCGLAPPHYPTLLTPVASVSLPSGISMDTE  
SKSDQLPHSQAQSVTQNTIVVPVSTGLMTAGVSCSQRWRREGSQSRGGLVITSPSGSLVTTASSAQTF  
PISAPMIVSALPPGSQALQVVPDLSTKTVASTL TEEGGGGGGGSSVAPKPPRGRKKRMLPESGLPEMNDP  
YVLSPEDDDDHQKDGKTYRCRMSLTFYSKSEMQLHSHKSHKPHKCPHCSTFANSSYLAQHIRIHS  
AKPYSYCNFCEKSFQRLSHLQHQHTRIHGTDRPYKCAHPGCEKAFTQLSNLQSHRRQHNKDKPFCCHNCHRA  
YTDAASLEVLSTHTVKKHAKVYTCTICSRAYTSETYLMKMRKHNPDLQQVQAAAAAAAAVAQAQAQ  
AQAQAQAQAQAQAASQASQQQQQQQQQQQQPPPHFQSPGAAPQGGGGGSDSNPNPPPCSFDLTPY  
KTAHHKIDICLVTTSTIQVEHLASS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6742\\_h03.zip](https://cdn.origene.com/chromatograms/mk6742_h03.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001039917

**ORF Size:** 1548 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001039917.1](#), [NP\\_001035006.1](#)

**RefSeq Size:** 2989 bp

**RefSeq ORF:** 1550 bp

**Locus ID:** 171017

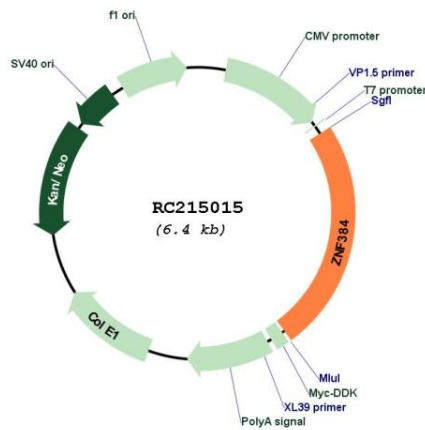
**Cytogenetics:** 12p13.31

**Protein Families:** Transcription Factors

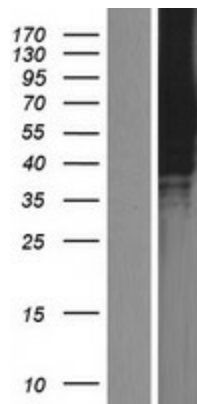
**MW:** 55.9 kDa

**Gene Summary:** This gene encodes a C2H2-type zinc finger protein, which may function as a transcription factor. This gene also contains long CAG trinucleotide repeats that encode consecutive glutamine residues. The protein appears to bind and regulate the promoters of the extracellular matrix genes MMP1, MMP3, MMP7 and COL1A1. Studies in mouse suggest that nuclear matrix transcription factors (NP/NMP4) may be part of a general mechanical pathway that couples cell construction and function during extracellular matrix remodeling. Alternative splicing results in multiple transcript variants. Recurrent rearrangements of this gene with the Ewing's sarcoma gene, EWSR1 on chromosome 22, or with the TAF15 gene on chromosome 17, or with the TCF3 (E2A) gene on chromosome 19, have been observed in acute leukemia. A related pseudogene has been identified on chromosome 7. [provided by RefSeq, Apr 2011]

**Product images:**



Circular map for RC215015



Western blot validation of overexpression lysate (Cat# [LY421852]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC216066] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).